AUTHOR INDEX

(D) Denotes Demonstration, (T) Title only, (C) Communication, (PC) Poster Communication

ANISS A.M., GANDEVIA S.C. & MILNE R.J. Changes in perceived heaviness and motor commands produced by cutaneous reflexes in man. 113

BELLUZZI O. & SACCHI O. The interactions between potassium and sodium currents in generating action potentials in the rat sympathetic neurone. 127

BLAKE Kathleen, CLUSIN William T., FRANZ Michael R. & SMITH Nellis A. Mechanism of depolarization in the ischaemic dog heart: discrepancy between T–Q potentials and potassium accumulation. 307

BLOOM S.R., EDWARDS A.V. & JONES C.T. The adrenal contribution to the neuroendocrine responses to splanchnic nerve stimulation in conscious calves. 513

BOURQUE Charles W. Transient calcium-dependent potassium current in magnocellular neurosecretory cells of the rat supraoptic nucleus. 331

BRESSLER B.H., DUSIK L.A. & MENARD M.R. Tension responses of frog skeletal muscle fibres to rapid shortening and lengthening steps. 631

BROWN David A. & HIGASHIDA Haruhiro Voltage- and calcium-activated potassium currents in mouse neuroblastoma × rat glioma hybrid cells. 149

BROWN David A. & HIGASHIDA Haruhiro Membrane current responses of NG108-15 neuroblastoma × rat glioma hybrid cells to bradykinin. 167

BROWN David A. & HIGASHIDA Haruhiro Inositol 1,4,5-trisphosphate and diacylglycerol mimic bradykinin effects on mouse neuroblastoma × rat glioma hybrid cells. 185

BUTLER P.J. & STEPHENSON R. Chemoreceptor control of heart rate and behaviour during diving in the tufted duck (*Aythya fuligula*). 63

CASSELL J.F., MCLACHLAN Elspeth M. & SITTIRACHA Taweeporn The effect of temperature on neuromuscular transmission in the main caudal artery of the rat. 31

CLUSIN William T. *see* BLAKE Kathleen, CLUSIN William T., FRANZ Michael R. & SMITH Nellis A. Mechanism of depolarization in the ischaemic dog heart: discrepancy between T–Q potentials and potassium accumulation. 307

COOPER R.G., EDWARDS R.H.T., GIBSON H. & STOKES M.J. Human muscle fatigue: frequency dependence of excitation and force generation. 585

DAVIDOFF R.A., HACKMAN J.C., HOLOHEAN A.M., VEGA J.L. & ZHANG D.X. Primary afferent activity, putative excitatory transmitters and extracellular potassium levels in frog spinal cord. 291

DEBNAM E.S., KARASOV W.H. & THOMPSON C.S. Nutrient uptake by rat enterocytes during diabetes mellitus; evidence for an increased sodium electrochemical gradient. 503

DUGGAN K.A., HAMS G. & MACDONALD G.J. Modification of renal and tissue cation transport by cholecystokinin octapeptide in the rabbit. 527

DUSIK L.A. *see* BRESSLER B.H., DUSIK L.A. & MENARD M.R. Tension responses of frog skeletal muscle fibres to rapid shortening and lengthening steps. 631

EDGLEY S.A. & JANKOWSKA E. Information processed by dorsal horn spinocerebellar tract neurones in the cat. 81

EDGLEY S.A. & GALLIMORE C.M. The morphology and projections of dorsal horn spinocerebellar tract neurones in the cat. 99

EDWARDS A.V. & GARRETT J.R. Submandibular responses to stimulation of the sympathetic innervation following parasympathetic denervation in cats. 421

EDWARDS A.V. *see* BLOOM S.R., EDWARDS A.V. & JONES C.T. The adrenal contribution to the neuroendocrine responses to splanchnic nerve stimulation in conscious calves. 513

EDWARDS R.H.T. *see* COOPER R.G., EDWARDS R.H.T., GIBSON H. & STOKES M.J. Human muscle fatigue: frequency dependence of excitation and force generation. 585

FLATMAN Peter W. The effects of magnesium on potassium transport in ferret red cells. 471

FRANZ Michael R. *see* BLAKE Kathleen, CLUSIN William T., FRANZ Michael R. & SMITH Nellis A. Mechanism of depolarization in the ischaemic dog heart: discrepancy between T–Q potentials and potassium accumulation. 307

GALLIMORE C.M. *see* EDGLEY S.A. & GALLIMORE C.M. The morphology and projections of dorsal horn spinocerebellar tract neurones in the cat. 99

GAMBOA-ALDECO R., HUERTA M. & STEFANI E. Effect of Ca^{2+} channel blockers on K^+ contractures in twitch fibres of the frog (*Rana pipiens*). 389

GANDEVIA S.C. *see* ANISS A.M., GANDEVIA S.C. & MILNE R.J. Changes in perceived heaviness and motor commands produced by cutaneous reflexes in man. 113

GARRETT J.R. *see* EDWARDS A.V. & GARRETT J.R. Submandibular responses to stimulation of the sympathetic innervation following parasympathetic denervation in cats. 421

GIBSON H. *see* COOPER R.G., EDWARDS R.H.T., GIBSON H. & STOKES M.J. Human muscle fatigue: frequency dependence of excitation and force generation. 585

HACKMAN J.C. *see* DAVIDOFF R.A., HACKMAN J.C., HOLOHEAN A.M., VEGA J.L. & ZHANG D.X. Primary afferent activity, putative excitatory transmitters and extracellular potassium levels in frog spinal cord. 291

HAMS G. *see* DUGGAN K.A., HAMS G. & MACDONALD G.J. Modification of renal and tissue cation transport by cholecystokinin octapeptide in the rabbit. 527

HESCHELER J., NAWRATH H., TANG M. & TRAUTWEIN W. Adrenoreceptor-mediated changes of excitation and contraction in ventricular heart muscle from guinea-pigs and rabbits. 657

HESS B.J.M., SAVIO Tiziana & STRATA P. Dynamic characteristics of optokinetically controlled eye movements following inferior olive lesions in the brown rat. 349

HIGASHIDA Haruhiro *see* BROWN David A. & HIGASHIDA Haruhiro Voltage- and calcium-activated potassium currents in mouse neuroblastoma × rat glioma hybrid cells. 149

HIGASHIDA Haruhiro *see* BROWN David A. & HIGASHIDA Haruhiro Membrane current responses of NG108-15 neuroblastoma × rat glioma hybrid cells to bradykinin. 167

HIGASHIDA Haruhiro *see* BROWN David A. & HIGASHIDA Haruhiro Inositol 1,4,5-trisphosphate and diacylglycerol mimic bradykinin effects on mouse neuroblastoma × rat glioma hybrid cells. 185

HIGASHIDA Haruhiro Acetylcholine release by bradykinin, inositol 1,4,5-trisphosphate and phorbol dibutyrate in rodent neuroblastoma cells. 209

HOBBACH H.P., HURTH Susanne, JOST D. & RACKÉ K. Effects of tetraethylammonium ions on frequency-dependent vasopressin release from the rat neurohypophysis. 539

HOLOHEAN A.M. *see* DAVIDOFF R.A., HACKMAN J.C., HOLOHEAN A.M., VEGA J.L. & ZHANG D.X. Primary afferent activity, putative excitatory transmitters and extracellular potassium levels in frog spinal cord. 291

HUERTA M. *see* GAMBOA-ALDECO R., HUERTA M. & STEFANI E. Effect of Ca^{2+} channel blockers on K^+ contractures in twitch fibres of the frog (*Rana pipiens*). 389

HURTH Susanne *see* HOBBACH H.P., HURTH Susanne, JOST D. & RACKÉ K. Effects of tetraethylammonium ions on frequency-dependent vasopressin release from the rat neurohypophysis. 539

ILLES P., JACKISCH R. & REGENOLD J.T. Presynaptic P_1-purinoceptors in jejunal branches of the rabbit mesenteric artery and their possible function. 13

ITOH Takeo, KUBOTA Yasutaka & KURIYAMA Hirosi Effects of a phorbol ester on acetylcholine-induced Ca^{2+} mobilization and contraction in the porcine coronary artery. 401

JACKISCH R. *see* ILLES P., JACKISCH R. & REGENOLD J.T. Presynaptic P_1-purinoceptors in jejunal branches of the rabbit mesenteric artery and their possible function. 13

JACKSON Meyer B. Dependence of acetylcholine receptor channel kinetics on agonist concentration in cultured mouse muscle fibres. 555

JANKOWSKA E. *see* EDGLEY S.A. & JANKOWSKA E. Information processed by dorsal horn spinocerebellar tract neurones in the cat. 81

JOHNSON David A. Regulation of intraganglionic synapses among rabbit parasympathetic neurones. 51

JONES C.T. *see* BLOOM S.R., EDWARDS A.V. & JONES C.T. The adrenal contribution to the neuroendocrine responses to splanchnic nerve stimulation in conscious calves. 513

JOST D. *see* HOBBACH H.P., HURTH Susanne, JOST D. & RACKÉ K. Effects of tetraethylammonium ions on frequency-dependent vasopressin release from the rat neurohypophysis. 539

KARASOV W.H. *see* DEBNAM E.S., KARASOV W.H. & THOMPSON C.S. Nutrient uptake by rat enterocytes during diabetes mellitus; evidence for an increased sodium electrochemical gradient. 503

KATZ Uri & VAN DRIESSCHE Willy Effect of theophylline on the apical sodium and chloride permeabilities of amphibian skin. 223

KITANO T. Effect of carbon dioxide on heat production of frog skeletal muscles. 643

KOTECHA N. & NEILD T.O. Relaxation and hyperpolarization of the smooth muscle of the rat tail artery following electrical stimulation. 489

KUBOTA Yasutaka *see* ITOH Takeo, KUBOTA Yasutaka & KURIYAMA Hirosi Effects of a phorbol ester on acetylcholine-induced Ca^{2+} mobilization and contraction in the porcine coronary artery. 401

KURIYAMA Hirosi *see* ITOH Takeo, KUBOTA Yasutaka & KURIYAMA Hirosi Effects of a phorbol ester on acetylcholine-induced Ca^{2+} mobilization and contraction in the porcine coronary artery. 401

LIPP Peter & POTT Lutz Transient inward current in guinea-pig atrial myocytes reflects a change of sodium–calcium exchange current. 601

MACDONALD G.J. *see* DUGGAN K.A., HAMS G. & MACDONALD G.J. Modification of renal and tissue cation transport by cholecystokinin octapeptide in the rabbit. 527

MACDOUGALL Margaret L. & WIEGMANN Thomas B. Excretion of *para*-aminohippurate in the isolated perfused rat kidney: net secretion and net reabsorption. 459

MCGEOWN J.G., MCHALE N.G. & THORNBURY K.D. Effects of varying patterns of external compression on lymph flow in the hindlimb of the anaesthetized sheep. 449

MCHALE N.G. *see* MCGEOWN J.G., MCHALE N.G. & THORNBURY K.D. Effects of varying patterns of external compression on lymph flow in the hindlimb of the anaesthetized sheep. 449

MCLACHLAN Elspeth M. *see* CASSELL J.F., MCLACHLAN Elspeth M. & SITTIRACHA Taweeporn The effect of temperature on neuromuscular transmission in the main caudal artery of the rat. 31

MATSUDA Hiroko Open-state substructure of inwardly rectifying potassium channels revealed by magnesium block in guinea-pig heart cells. 237

MENARD M.R. *see* BRESSLER B.H., DUSIK L.A. & MENARD M.R. Tension responses of frog skeletal muscle fibres to rapid shortening and lengthening steps. 631

MILNE R.J. *see* ANISS A.M., GANDEVIA S.C. & MILNE R.J. Changes in perceived heaviness and motor commands produced by cutaneous reflexes in man. 113

MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Ventromedial hypothalamus is highly sensitive to prostaglandin E_2 for producing fever in rabbits. 259

MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Multiple control of fever production in the central nervous system of rabbits. 269

MORIMOTO Akio, MURAKAMI Naotoshi & WATANABE Tatsuo Is the central arachidonic acid cascade system involved in the development of acute-phase response in rabbits? 281

MURAKAMI Naotoshi *see* MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Ventromedial hypothalamus is highly sensitive to prostaglandin E_2 for producing fever in rabbits. 259

MURAKAMI Naotoshi *see* MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Multiple control of fever production in the central nervous system of rabbits. 269

MURAKAMI Naotoshi *see* MORIMOTO Akio, MURAKAMI Naotoshi & WATANABE Tatsuo Is the central arachidonic acid cascade system involved in the development of acute-phase response in rabbits? 281

NAKAMORI Tomoki *see* MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Ventromedial hypothalamus is highly sensitive to prostaglandin E_2 for producing fever in rabbits. 259

NAKAMORI Tomoki *see* MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Multiple control of fever production in the central nervous system of rabbits. 269

NAWRATH H. *see* HESCHELER J., NAWRATH H., TANG M. & TRAUTWEIN W. Adrenoreceptor-mediated changes of excitation and contraction in ventricular heart muscle from guinea-pigs and rabbits. 657

NEILD T.O. *see* KOTECHA N. & NEILD T.O. Relaxation and hyperpolarization of the smooth muscle of the rat tail artery following electrical stimulation. 489

POTT Lutz *see* LIPP Peter & POTT Lutz Transient inward current in guinea-pig atrial myocytes reflects a change of sodium–calcium exchange current. 601

RACKÉ K. *see* HOBBACH H.P., HURTH Susanne, JOST D. & RACKÉ K. Effects of tetraethylammonium ions on frequency-dependent vasopressin release from the rat neurohypophysis. 539

REGENOLD J.T. *see* ILLES P., JACKISCH R. & REGENOLD J.T. Presynaptic P_1-purinoceptors in jejunal branches of the rabbit mesenteric artery and their possible function. 13

RIEDO Roger & RÜEGG Dieter G. Origin of the specific H reflex facilitation preceding a voluntary movement in man. 371

ROLLS Edmund T., SCOTT Thomas R., SIENKIEWICZ Zenon J. & YAXLEY Simon The responsiveness of neurones in the frontal opercular gustatory cortex of the macaque monkey is independent of hunger. 1

RÜEGG Dieter G. *see* RIEDO Roger & RÜEGG Dieter G. Origin of the specific H reflex facilitation preceding a voluntary movement in man. 371

SACCHI O. *see* BELLUZZI O. & SACCHI O. The interactions between potassium and sodium currents in generating action potentials in the rat sympathetic neurone. 127

SAVIO Tiziana *see* HESS B.J.M., SAVIO Tiziana & STRATA P. Dynamic characteristics of optokinetically controlled eye movements following inferior olive lesions in the brown rat. 349

SCOTT Thomas R. *see* ROLLS Edmund T., SCOTT Thomas R., SIENKIEWICZ Zenon J. & YAXLEY Simon The responsiveness of neurones in the frontal opercular gustatory cortex of the macaque monkey is independent of hunger. 1

SIENKIEWICZ Zenon J. *see* ROLLS Edmund T., SCOTT Thomas R., SIENKIEWICZ Zenon J. & YAXLEY Simon The responsiveness of neurones in the frontal opercular gustatory cortex of the macaque monkey is independent of hunger. 1

SITTIRACHA Taweeporn *see* CASSELL J.F., MCLACHLAN Elspeth M. & SITTIRACHA Taweeporn The effect of temperature on neuromuscular transmission in the main caudal artery of the rat. 31

SKYDSGAARD J.M. Inhibition of chloride self-exchange with stilbene disulphonates in depolarized skeletal muscle of *Rana temporaria*. 433

SMITH Nellis A. *see* BLAKE Kathleen, CLUSIN William T., FRANZ Michael R. & SMITH Nellis A. Mechanism of depolarization in the ischaemic dog heart: discrepancy between T–Q potentials and potassium accumulation. 307

STEFANI E. *see* GAMBOA-ALDECO R., HUERTA M. & STEFANI E. Effect of Ca^{2+} channel blockers on K^+ contractures in twitch fibres of the frog (*Rana pipiens*). 389

STEPHENSON R. *see* BUTLER P.J. & STEPHENSON R. Chemoreceptor control of heart rate and behaviour during diving in the tufted duck (*Aythya fuligula*). 63

STOKES M.J. *see* COOPER R.G., EDWARDS R.H.T., GIBSON H. & STOKES M.J. Human muscle fatigue: frequency dependence of excitation and force generation. 585

STRATA P. *see* HESS B.J.M., SAVIO Tiziana & STRATA P. Dynamic characteristics of optokinetically controlled eye movements following inferior olive lesions in the brown rat. 349

TANG M. *see* HESCHELER J., NAWRATH H., TANG M. & TRAUTWEIN W. Adrenoreceptor-mediated changes of excitation and contraction in ventricular heart muscle from guinea-pigs and rabbits. 657

THOMPSON C.S. *see* DEBNAM E.S., KARASOV W.H. & THOMPSON C.S. Nutrient uptake by rat enterocytes during diabetes mellitus; evidence for an increased sodium electrochemical gradient. 503

THORNBURY K.D. *see* MCGEOWN J.G., MCHALE N.G. & THORNBURY K.D. Effects of varying patterns of external compression on lymph flow in the hindlimb of the anaesthetized sheep. 449

TRAUTWEIN W. *see* HESCHELER J., NAWRATH H., TANG M. & TRAUTWEIN W. Adrenoreceptor-mediated changes of excitation and contraction in ventricular heart muscle from guinea-pigs and rabbits. 657

VAN DRIESSCHE Willy *see* KATZ Uri & VAN DRIESSCHE Willy Effect of theophylline on the apical sodium and chloride permeabilities of amphibian skin. 223

VEGA J.L. *see* DAVIDOFF R.A., HACKMAN J.C., HOLOHEAN A.M., VEGA J.L. & ZHANG D.X. Primary afferent activity, putative excitatory transmitters and extracellular potassium levels in frog spinal cord. 291

WATANABE Tatsuo *see* MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Ventromedial hypothalamus is highly sensitive to prostaglandin E_2 for producing fever in rabbits. 259

WATANABE Tatsuo *see* MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Multiple control of fever production in the central nervous system of rabbits. 269

WATANABE Tatsuo *see* MORIMOTO Akio, MURAKAMI Naotoshi & WATANABE Tatsuo Is the central arachidonic acid cascade system involved in the development of acute-phase response in rabbits? 281

WIEGMANN Thomas B. *see* MACDOUGALL Margaret L. & WIEGMANN Thomas B. Excretion of *para*-aminohippurate in the isolated perfused rat kidney: net secretion and net reabsorption. 459

YAXLEY Simon *see* ROLLS Edmund T., SCOTT Thomas R., SIENKIEWICZ Zenon J. & YAXLEY Simon The responsiveness of neurones in the frontal opercular gustatory cortex of the macaque monkey is independent of hunger. 1

ZHANG D.X. *see* DAVIDOFF R.A., HACKMAN J.C., HOLOHEAN A.M., VEGA J.L. & ZHANG D.X. Primary afferent activity, putative excitatory transmitters and extracellular potassium levels in frog spinal cord. 291

CONTENTS OF VOLUME 397

March 1988

ROLLS Edmund T., SCOTT Thomas R., SIENKIEWICZ Zenon J. & YAXLEY Simon The responsiveness of neurones in the frontal opercular gustatory cortex of the macaque monkey is independent of hunger. 1

ILLES P., JACKISCH R. & REGENOLD J.T. Presynaptic P_1-purinoceptors in jejunal branches of the rabbit mesenteric artery and their possible function. 13

CASSELL J.F., MCLACHLAN Elspeth M. & SITTIRACHA Taweeporn The effect of temperature on neuromuscular transmission in the main caudal artery of the rat. 31

JOHNSON David A. Regulation of intraganglionic synapses among rabbit parasympathetic neurones. 51

BUTLER P.J. & STEPHENSON R. Chemoreceptor control of heart rate and behaviour during diving in the tufted duck (*Aythya fuligula*). 63

EDGLEY S.A. & JANKOWSKA E. Information processed by dorsal horn spinocerebellar tract neurones in the cat. 81

EDGLEY S.A. & GALLIMORE C.M. The morphology and projections of dorsal horn spinocerebellar tract neurones in the cat. 99

ANISS A.M., GANDEVIA S.C. & MILNE R.J. Changes in perceived heaviness and motor commands produced by cutaneous reflexes in man. 113

BELLUZZI O. & SACCHI O. The interactions between potassium and sodium currents in generating action potentials in the rat sympathetic neurone. 127

BROWN David A. & HIGASHIDA Haruhiro Voltage- and calcium-activated potassium currents in mouse neuroblastoma × rat glioma hybrid cells. 149

BROWN David A. & HIGASHIDA Haruhiro Membrane current responses of NG108-15 neuroblastoma × rat glioma hybrid cells to bradykinin. 167

BROWN David A. & HIGASHIDA Haruhiro Inositol 1,4,5-trisphosphate and diacylglycerol mimic bradykinin effects on mouse neuroblastoma × rat glioma hybrid cells. 185

HIGASHIDA Haruhiro Acetylcholine release by bradykinin, inositol 1,4,5-trisphosphate and phorbol dibutyrate in rodent neuroblastoma cells. 209

KATZ Uri & VAN DRIESSCHE Willy Effect of theophylline on the apical sodium and chloride permeabilities of amphibian skin. 223

MATSUDA Hiroko Open-state substructure of inwardly rectifying potassium channels revealed by magnesium block in guinea-pig heart cells. 237

MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Ventromedial hypothalamus is highly sensitive to prostaglandin E_2 for producing fever in rabbits. 259

MORIMOTO Akio, MURAKAMI Naotoshi, NAKAMORI Tomoki & WATANABE Tatsuo Multiple control of fever production in the central nervous system of rabbits. 269

MORIMOTO Akio, MURAKAMI Naotoshi & WATANABE Tatsuo Is the central arachidonic acid cascade system involved in the development of acute-phase response in rabbits? 281

DAVIDOFF R.A., HACKMAN J.C., HOLOHEAN A.M., VEGA J.L. & ZHANG D.X. Primary afferent activity, putative excitatory transmitters and extracellular potassium levels in frog spinal cord. 291

BLAKE Kathleen, CLUSIN William T., FRANZ Michael R. & SMITH Nellis A. Mechanism of depolarization in the ischaemic dog heart: discrepancy between T–Q potentials and potassium accumulation. 307

BOURQUE Charles W. Transient calcium-dependent potassium current in magnocellular neurosecretory cells of the rat supraoptic nucleus. 331

HESS B.J.M., SAVIO Tiziana & STRATA P. Dynamic characteristics of optokinetically controlled eye movements following inferior olive lesions in the brown rat. 349

RIEDO Roger & RÜEGG Dieter G. Origin of the specific H reflex facilitation preceding a voluntary movement in man. 371

GAMBOA-ALDECO R., HUERTA M. & STEFANI E. Effect of Ca^{2+} channel blockers on K^+ contractures in twitch fibres of the frog (*Rana pipiens*). 389

ITOH Takeo, KUBOTA Yasutaka & KURIYAMA Hirosi Effects of a phorbol ester on acetylcholine-induced Ca^{2+} mobilization and contraction in the porcine coronary artery. 401

EDWARDS A.V. & GARRETT J.R. Submandibular responses to stimulation of the sympathetic innervation following parasympathetic denervation in cats. 421

SKYDSGAARD J.M. Inhibition of chloride self-exchange with stilbene disulphonates in depolarized skeletal muscle of *Rana temporaria*. 433

MCGEOWN J.G., MCHALE N.G. & THORNBURY K.D. Effects of varying patterns of external compression on lymph flow in the hindlimb of the anaesthetized sheep. 449

MACDOUGALL Margaret L. & WIEGMANN Thomas B. Excretion of *para*-aminohippurate in the isolated perfused rat kidney: net secretion and net reabsorption. 459

FLATMAN Peter W. The effects of magnesium on potassium transport in ferret red cells. 471

KOTECHA N. & NEILD T.O. Relaxation and hyperpolarization of the smooth muscle of the rat tail artery following electrical stimulation. 489

DEBNAM E.S., KARASOV W.H. & THOMPSON C.S. Nutrient uptake by rat enterocytes during diabetes mellitus; evidence for an increased sodium electrochemical gradient. 503

BLOOM S.R., EDWARDS A.V. & JONES C.T. The adrenal contribution to the neuroendocrine responses to splanchnic nerve stimulation in conscious calves. 513

DUGGAN K.A., HAMS G. & MACDONALD G.J. Modification of renal and tissue cation transport by cholecystokinin octapeptide in the rabbit. 527

HOBBACH H.P., HURTH Susanne, JOST D. & RACKÉ K. Effects of tetraethylammonium ions on frequency-dependent vasopressin release from the rat neurohypophysis. 539

JACKSON Meyer B. Dependence of acetylcholine receptor channel kinetics on agonist concentration in cultured mouse muscle fibres. 555

COOPER R.G., EDWARDS R.H.T., GIBSON H. & STOKES M.J. Human muscle fatigue: frequency dependence of excitation and force generation. 585

LIPP Peter & POTT Lutz Transient inward current in guinea-pig atrial myocytes reflects a change of sodium–calcium exchange current. 601

BRESSLER B.H., DUSIK L.A. & MENARD M.R. Tension responses of frog skeletal muscle fibres to rapid shortening and lengthening steps. 631

KITANO T. Effect of carbon dioxide on heat production of frog skeletal muscles. 643

HESCHELER J., NAWRATH H., TANG M. & TRAUTWEIN W. Adrenoreceptor-mediated changes of excitation and contraction in ventricular heart muscle from guinea-pigs and rabbits. 657